Special Issue

Application of Microwave Remote Sensing in Earth's Surface Observation

Message from the Guest Editor

The aim of this Special Issue is to take stock of the current state of knowledge on the interactions (emission and scattering) of microwaves with land surfaces (namely, bare rough soils, agricultural and forest vegetation, dry and wet snow cover, ocean and sea ice) for a quantitative estimate of geophysical parameters from the presently available and recent planned satellites. To do this, contributions could involve both experimental and theoretical studies concerning observations of the Earth's surface using Radar (SAR and Scatterometers), Microwave Radiometers and the more recent sensors such as GNSS-R satellites. Some potential topics of interest for this Special Issue are the potential of X band and lower frequencies in snow cover surveys in mountainous regions; capability of monitoring liquid water in wet snow; estimating vegetation biomass and sensitivity to soil moisture in dense forests. Suggestions for future satellites (including geostationary systems) are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2024)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/190747

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

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